

AHB SYSTEM 8 SCHEMATICS MARK II ISSUE II
THIS VERSION INCLUDES UP-DATED DRAWING COPIES WHERE KNOWN ERRORS HAVE BEEN CORRECTED.

## TECHNICAL BULLETIN

AHB SYSTEM 8 JANUARY 1985

SUBJECT: VU METER SERVICE REPLACEMENT

As a result of supply difficulties it has been necessary to introduce a variation in the type of meter fitted. In order to ensure correct supply to you of a replacement should this be necessary it is essential for us to be advised of the SERIAL NUMBER of your unit. This will be checked against records kept by AHB and used to provide you with the correct service part.

AHB

19.1.85

T.R.

## AHB SYSTEM 8 PRODUCT RANGE: ALL MODELS

Improvement to the features offered on this range of products have been introduced as follows, the models are referred to as System 8 Mk II and replace the original models.

- 1. Channel input, group output and left/right faders are now 100mm travel ultra smooth type with improved attenuation characteristics and longer life.
- 2. Channel input sections all now include an additional push button EQ CUT for switching the equaliser out of action.
- 3. Connection of the multitrack recorder output is now required only at the TAPE INPUT jack sockets. Internal connections automatically route the programme to channel line inputs. Tape input 1 is internally connected to line input 1 and Tape 2 to line 2 etc. Insertion of a jack plug in the channel line input socket defeats the internal connection and allows the line input to receive a new programme source. See CONNECTIONS section of the OWNER HANDBOOK for details.
- 4. Power supplies now include +48v Phantom Power as standard.
- 5. Level matching for low level operation now adopts the nominal standard of 0.30v RMS at OVU in place of 0.32v RMS.
- 6. Push button 1kHz SLATE has been made white to distinguish it from adjacent controls.
- 7. TAPE INPUT gain is now increased to boost the loudness of off-tape programme in the stereo mix.
- 8. General specifications and performance other than the details above are unaltered.
- 9. Operator' Handbook Mk II and schematics book Mk II are now in use.

AHB Brighton 21.2.84

To order spare parts for service replacement specify the items as described below.

FUNCTION	ITEM	AHB STOCK REF
Fader	100mm 10k Alps	AI0091
Fader knob	Black Alps	AJ0048
Fader screw	M3 CSK 5mm	AB0070
Meter	SQ10	AD0011
Meter lamp	8v 50MA SQ10	AD0013
Knob	6mm Brown	AJ0044
Knob cap	Red	AJ0045
_	Brown	AJ0046
	Green	AJ0047
Pushbutton cap	4748 Black	AJ0028
Base screw	6AB x 을 PAN	AB0062
Base clip		AB0111
Input Pot Gain	10KC metric bkt	AI0049
H.F.	100KA metric	AI0047
L.F.	100KA metric 🕐	AI0047
Mid	100KA metric	AI0047
Mid Freq	100KC $x$ 2 metric	AI0048
Aux 1	47KB metric	_
Aux 2	4/KB metric	AI0050
Aux 3	47KB metric	AI0050
Pan	10KA metric bkt	AI0046
Output Pot Level	10KB metric	AI0043
Aux 1	47KB metric	AI0050
Aux 2/3	47KB metric	AI0050
Pan Pat Assa 4	10KA metric bkt	AI0046
Master Pot Aux 1	47KB metric bkt	AI0045
Aux 2	47KB metric	AI0050 AI0050
Aux 3 Cue	47KB metric 10KB x 2 metric	AI0044
Level	47KB metric	AI0050
	47KB metric	AI0050
Aux 1 Aux 2	47KB metric	AI0050
Pan	10KA metric bkt	A10050 A10046
Talkback level	47KB metric bkt	AI0045
Headphone level	10KB x 2 metric	AI0049
Monitor level	10KB x 2 metric	AI0044
Level	47KB metric	AI0050
Aux 1	47KB metric	AI0050
Aux 2	47KB metric	AI0050
Pan	10KA metric bkt	AI0046
Pushbutton Switch	Single	AL0076
Pushbutton Switch	Dual	AL0077
Pushbutton Switch	Four way	AL0082
Pushbutton Switch	Five way	AL0079
Pushbutton Switch	Talkback	AL0078
IC op-amp	TLO72CP	AE0046
Input transistor	ZTX214C	AE0031
Red LED	T1 Red	AE0086
Relay, PFL	NF2-24	AM0205

The following items are not common to Mark II and are still available for service replacement on Mark I models.

FUNCTION	ITEM	AHB STOCK REF
Fader	90mm 5k TBM	AI0089
Fader knobs	Black TBM	AJ0038
Fader screw	M3 CSK 10mm	AB0075
Spacer	M3 CLEAR x 6mm	AB0137

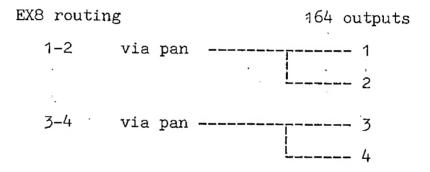
Technical Bulletin:

AHB System 8: Expanding the 164 model

Input routing on the 164 model uses four pushbuttons 1, 2, 3, 4 for assigning inputs to outputs. The pan selects one of the pair chosen if two assigns are made.

Input routing on the EX8 input expander uses four pushbuttons 1-2, 3-4, 5-6, 7-8 for assigning inputs to outputs.

When an EX8 is added to a 164 using the standard Tie Line connector inputs on the EX8 are assigned to the four outputs of the 164 as follows:



EX8 routing pushbuttons 5-6, 7-8 are not used.

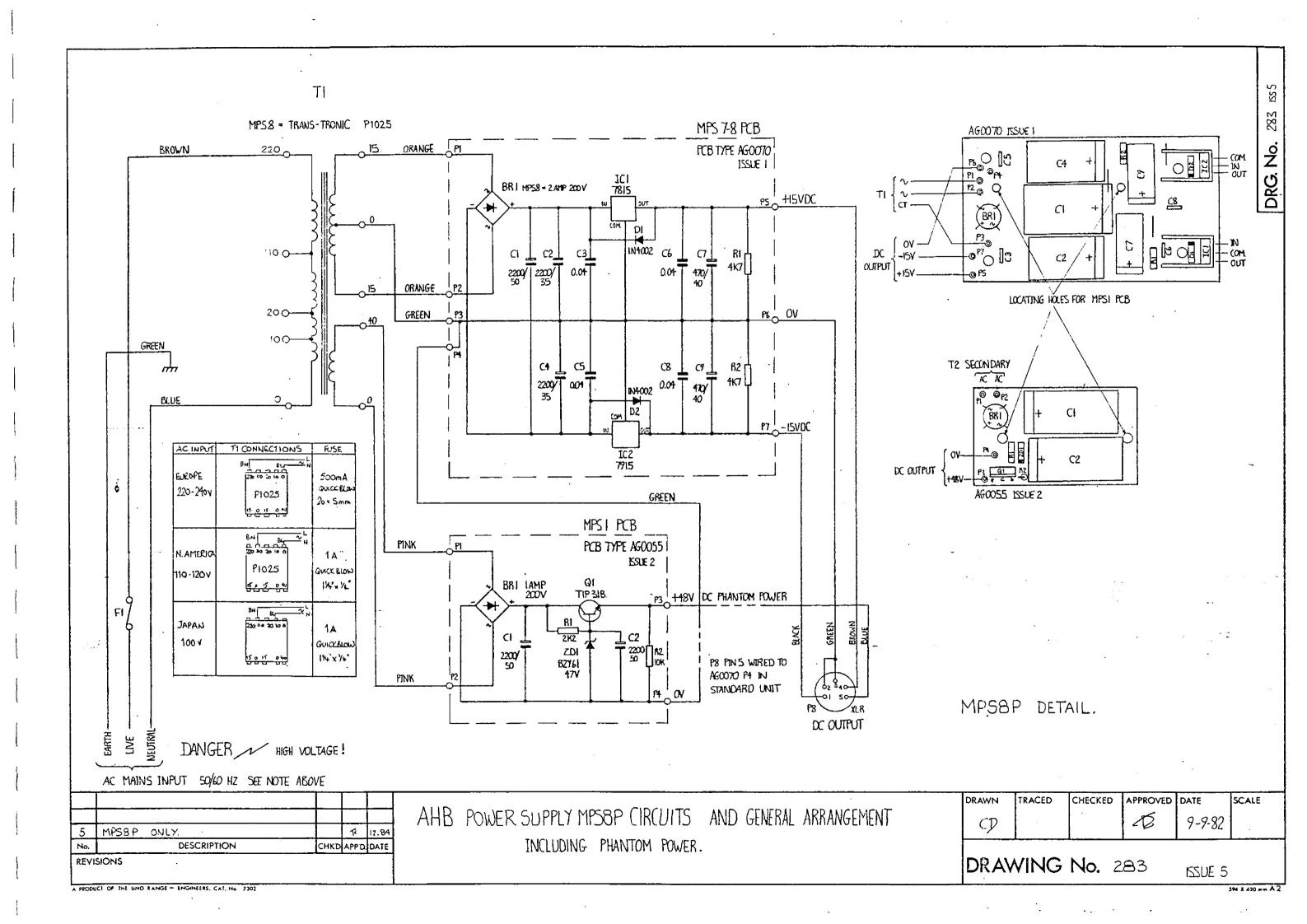
If this arrangement is not wanted a modification can be made within the EX8 to match the 164 input routing style, however the function will disagree with the panel markings on the EX8.

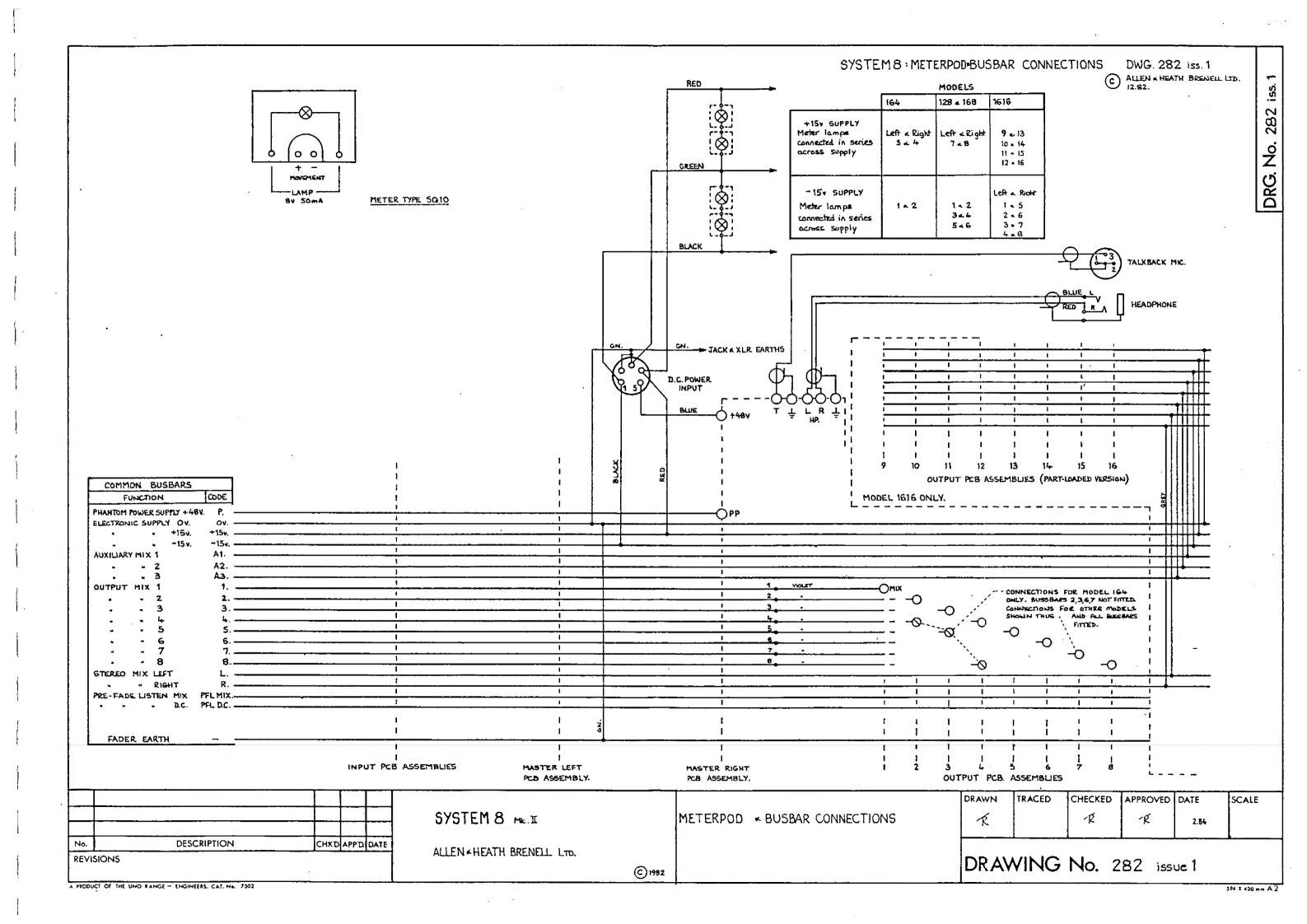
Reconnect the internal EX8 pcb harness to the output mix busses so that

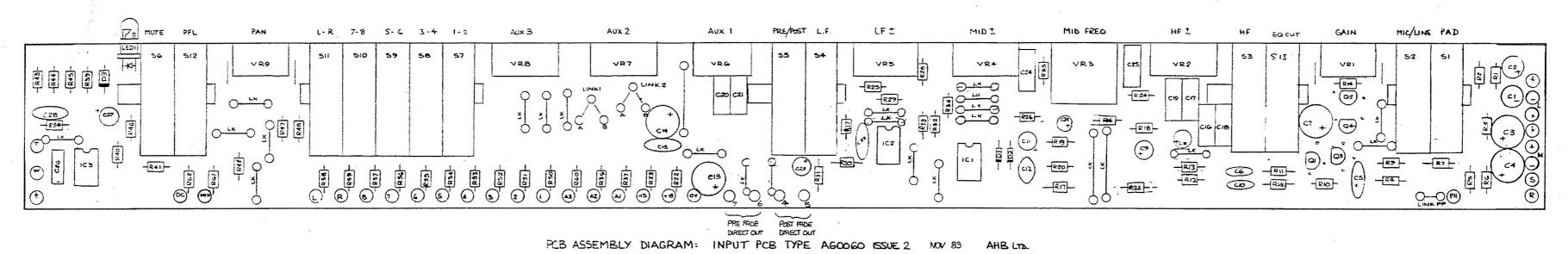
mix bussbar 4 goes to EX8 pcb input 2 (cct. K) mix bussbar 5 goes to EX8 pcb input 3 (cct. H) mix bussbar 8 goes to EX8 pcb input 4 (cct. I).

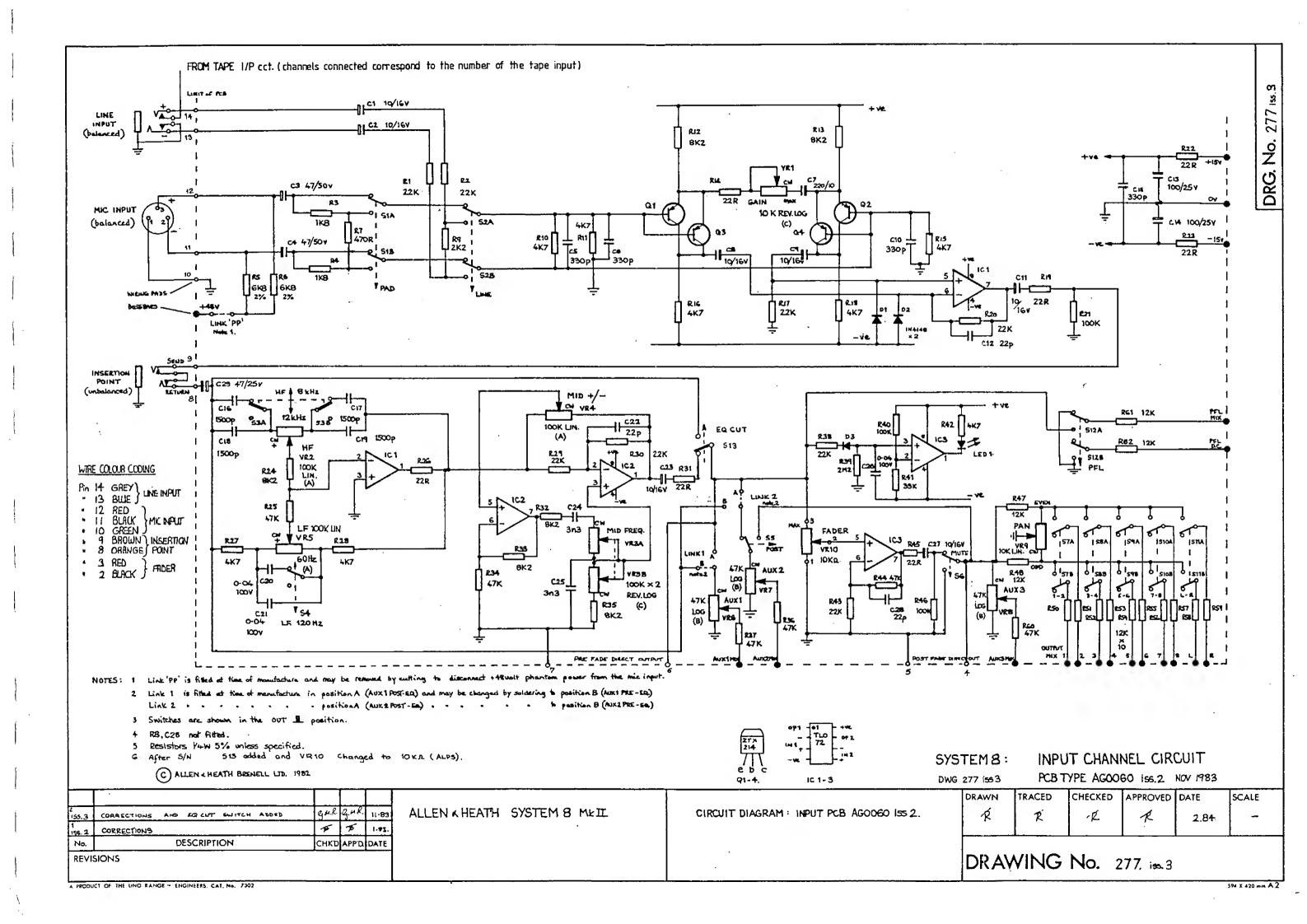
Leave mix bussbar 1 as it is. Disconnect mix bussbars 2, 3, 6, 7 from the EX8 pcb.

Allen and Heath Brenell Ltd., 69 Ship Street, BRIGHTON, East Sussex.

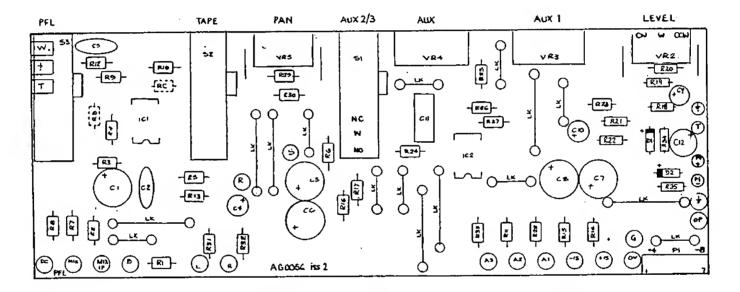




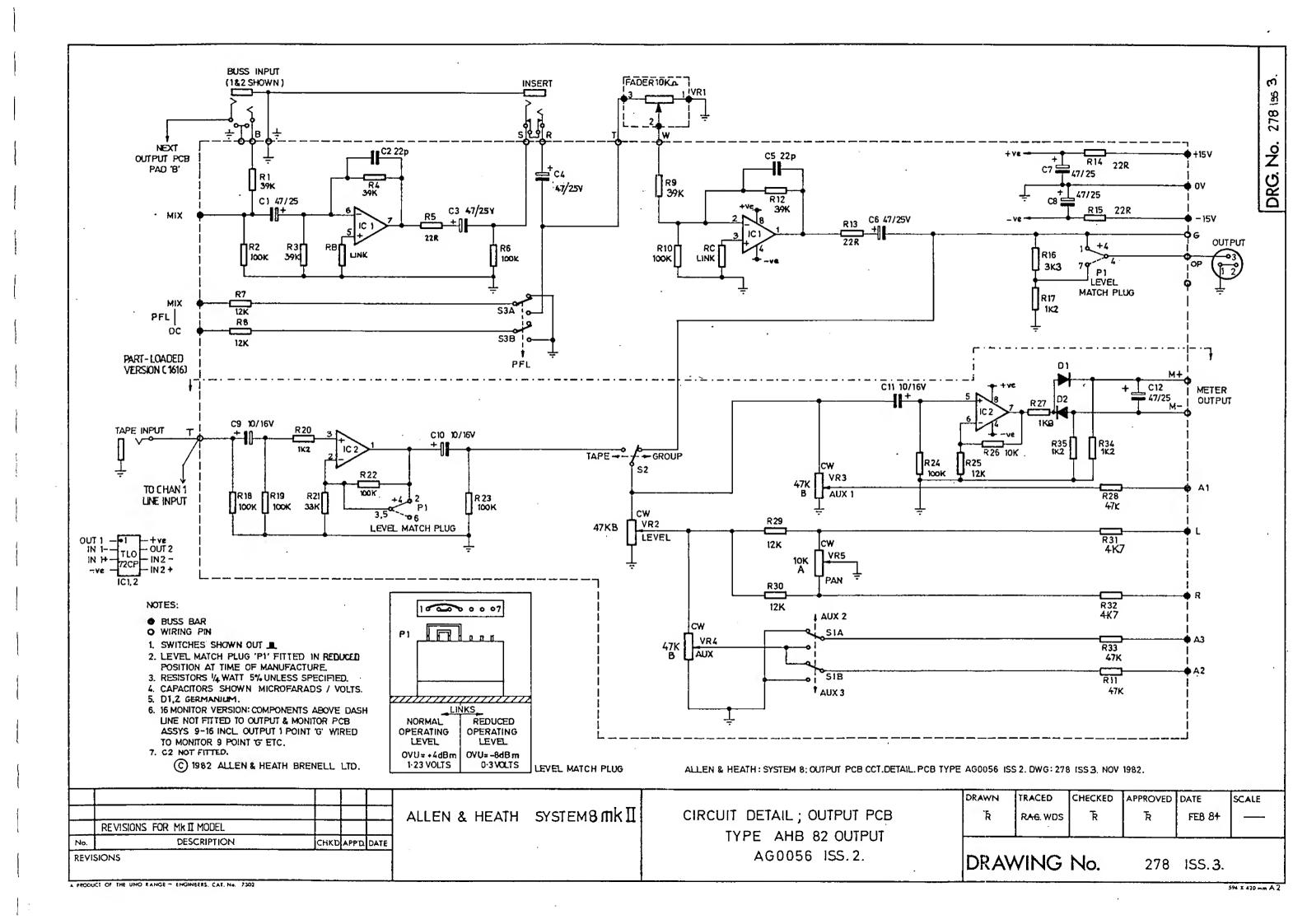


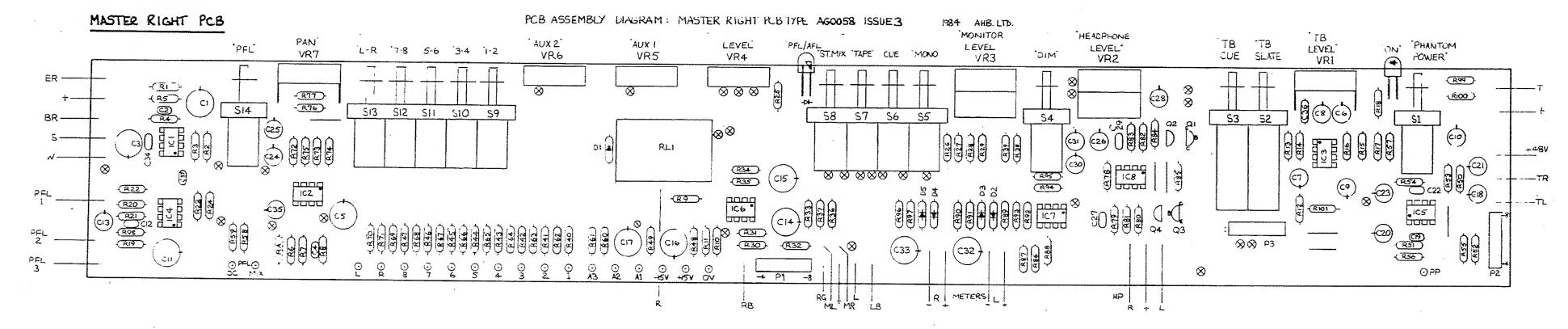


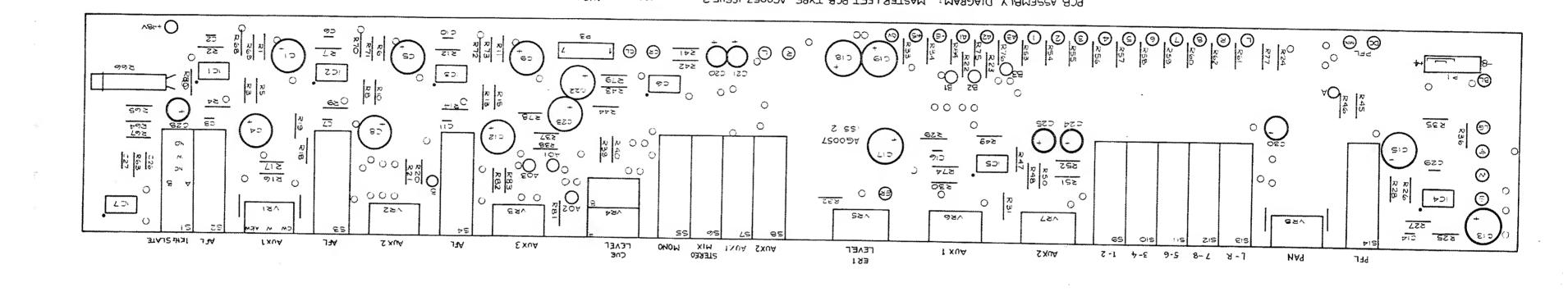
## OUTPUT PCB

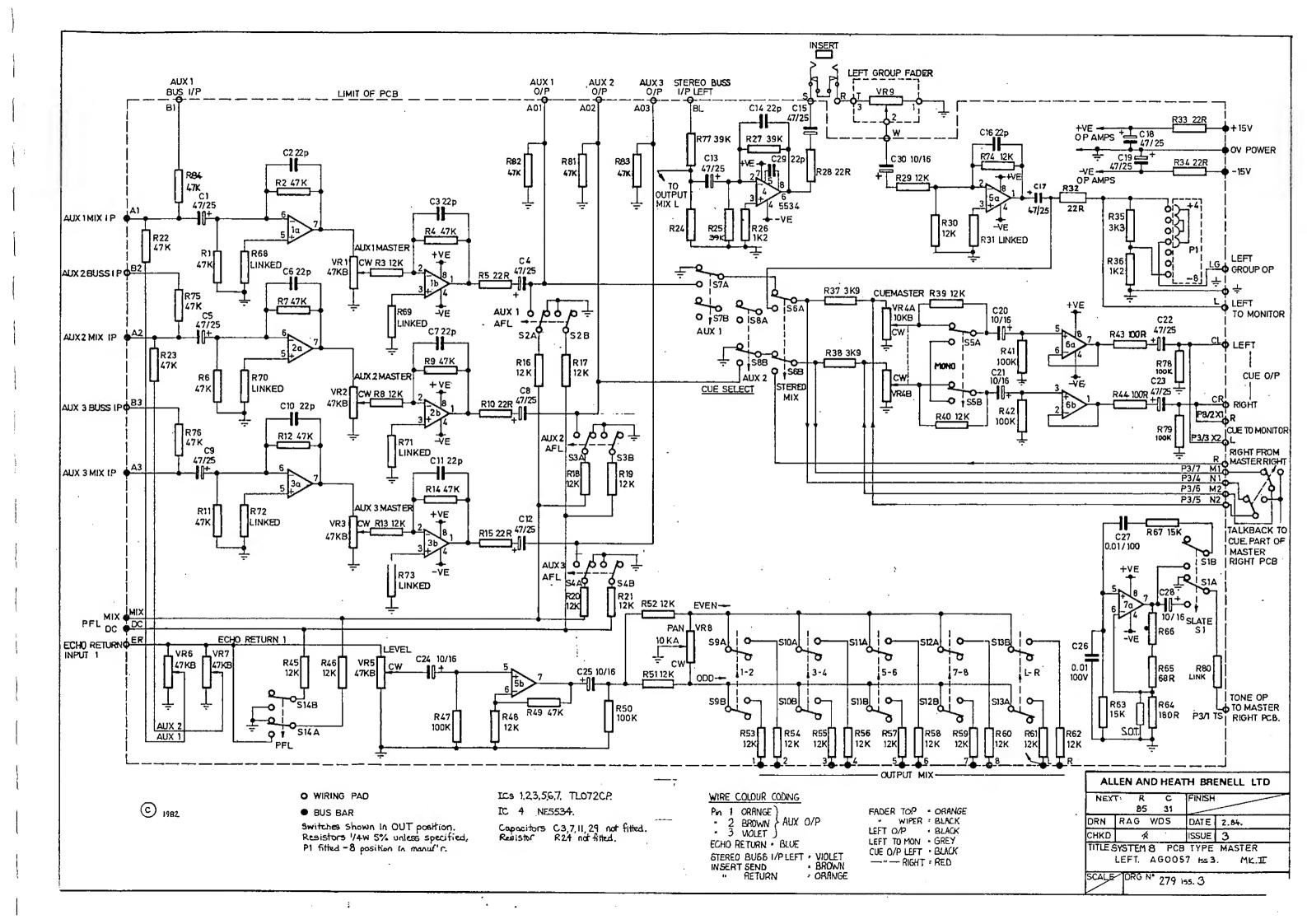


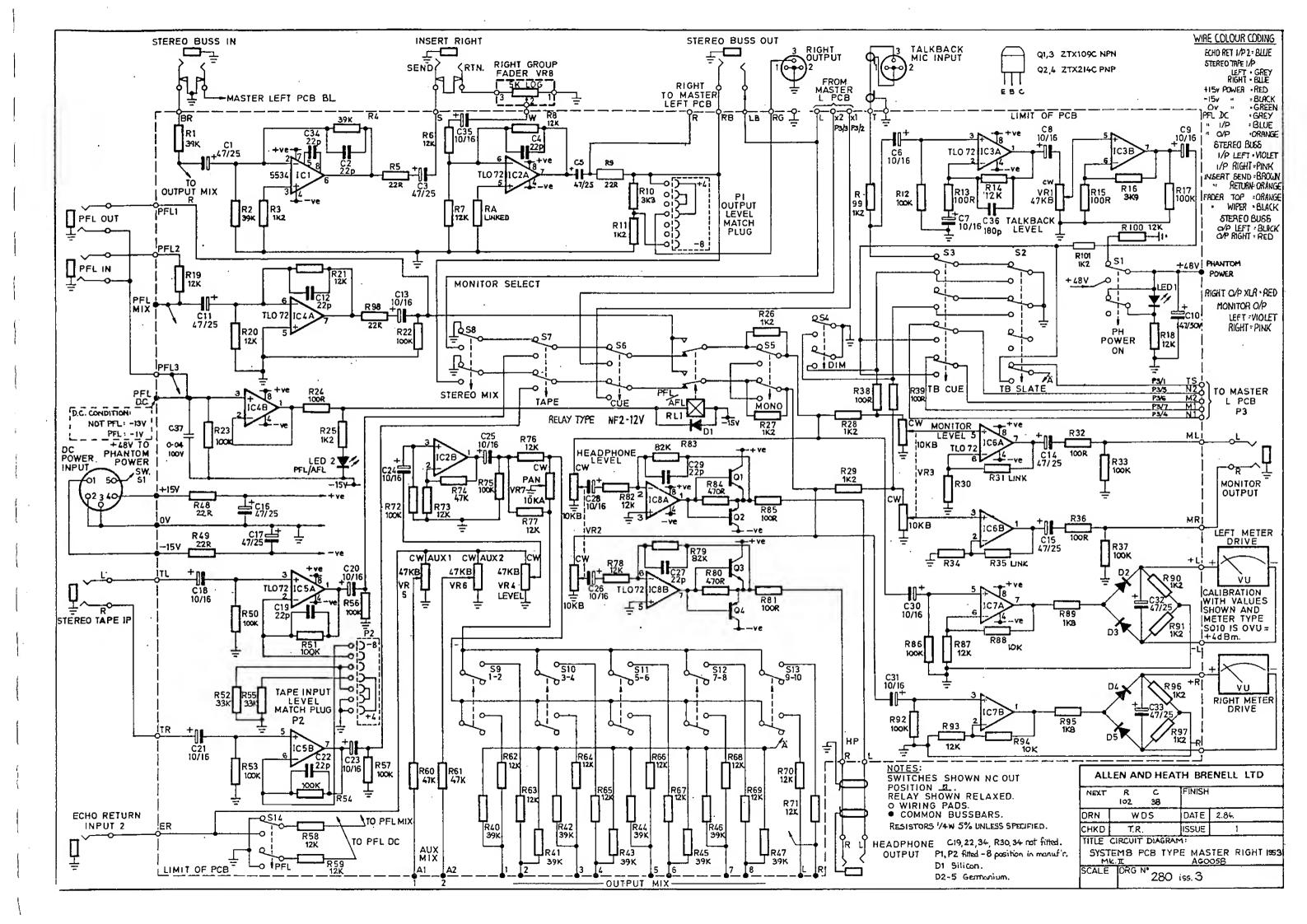
PCB ASSEMBLY DIAGRAM: OUTPUT PCB TYPE AGOOS 6 15506 2 NW. 1992. AHR LTD.

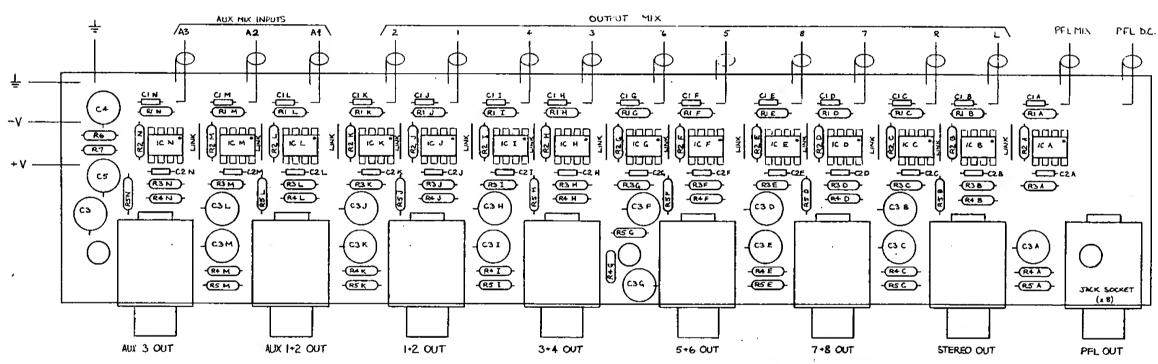




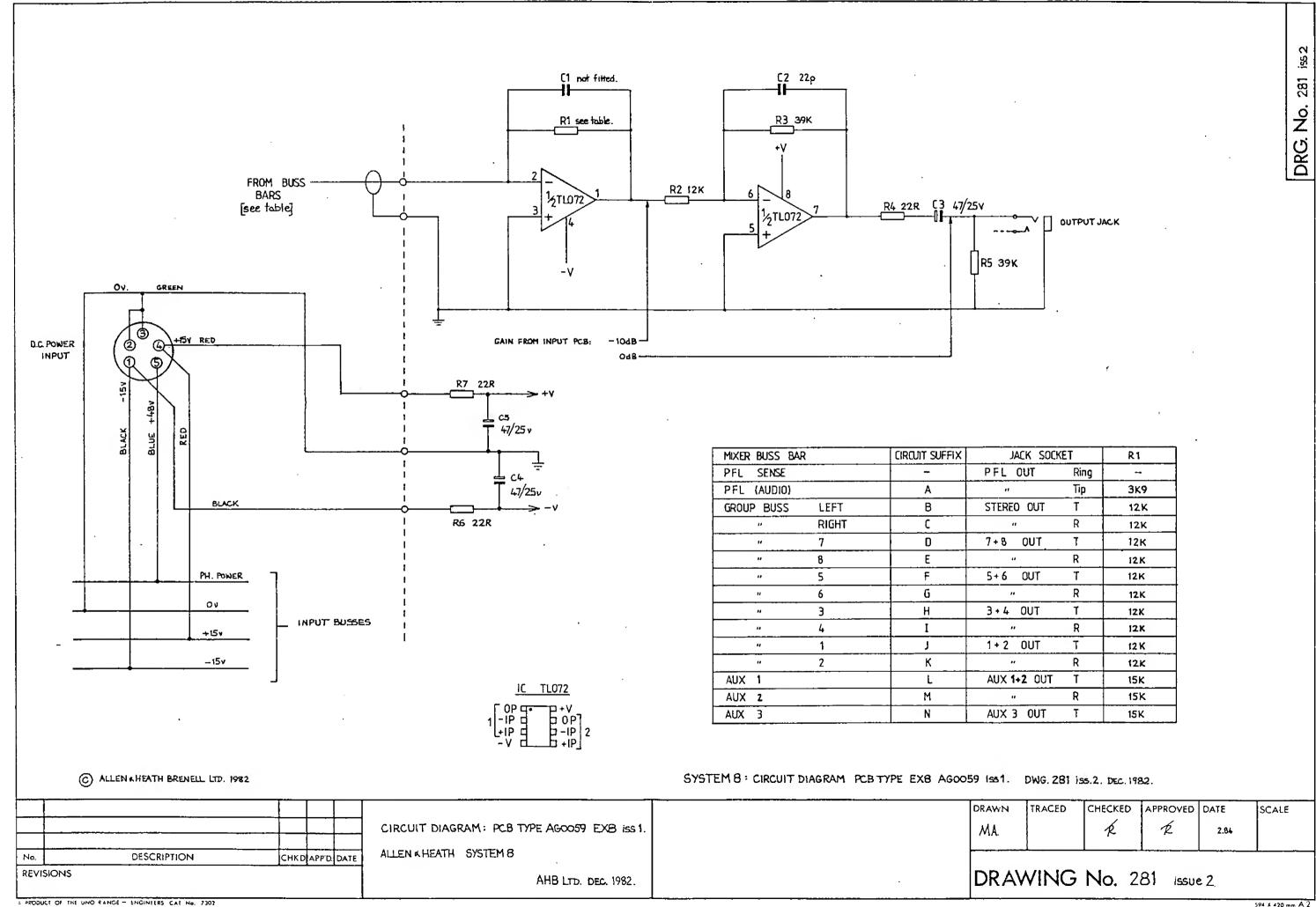


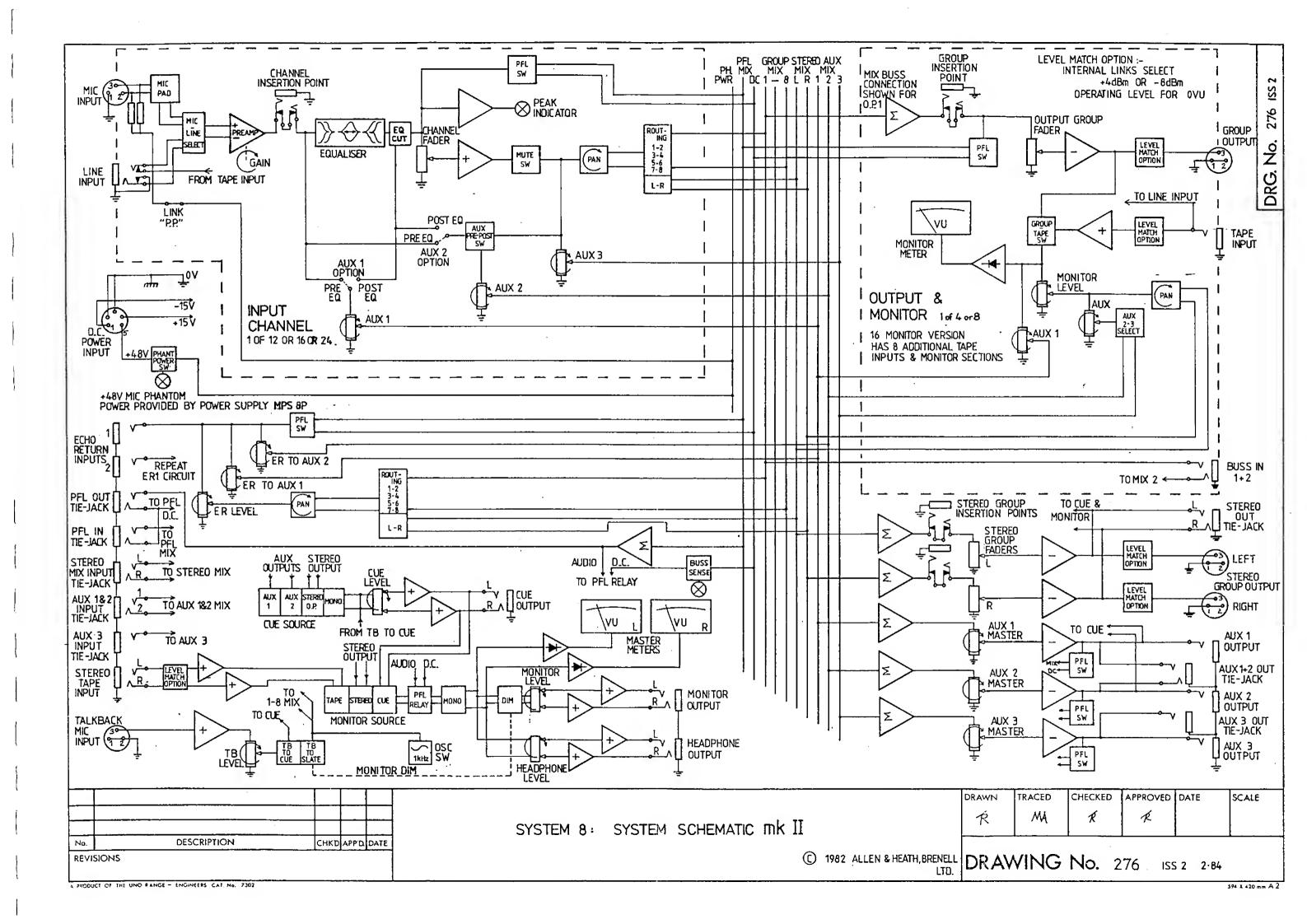


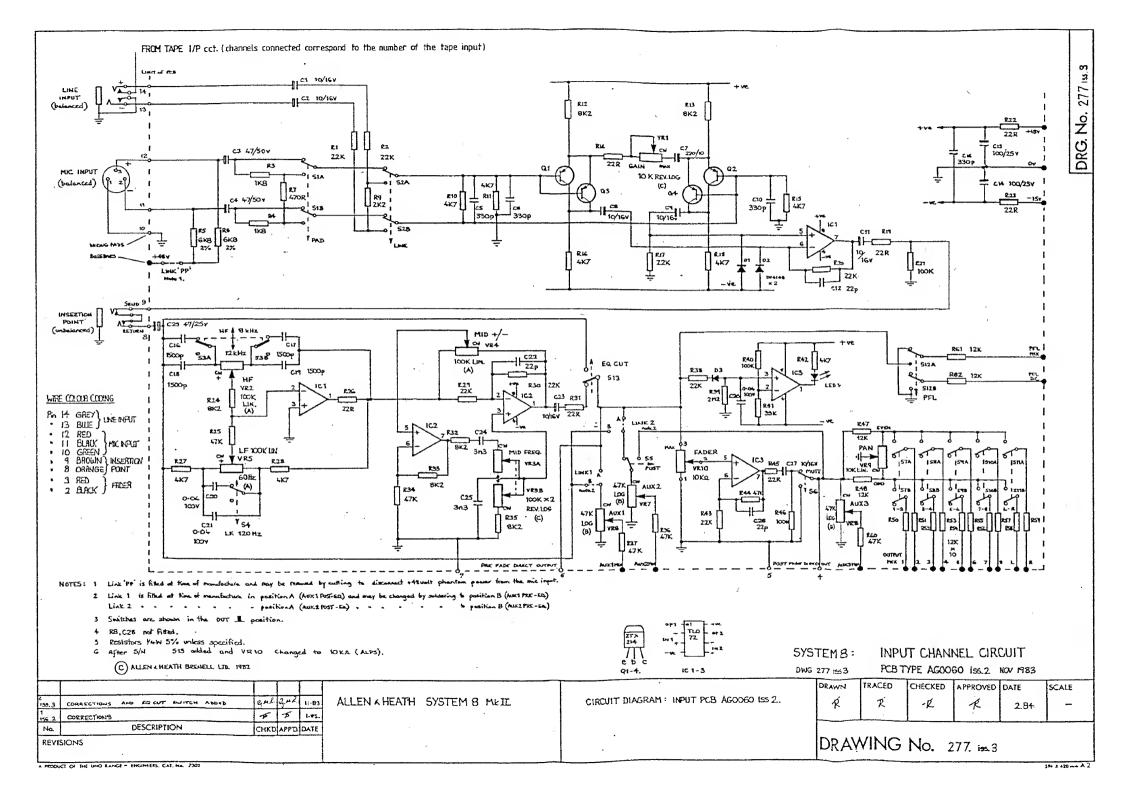


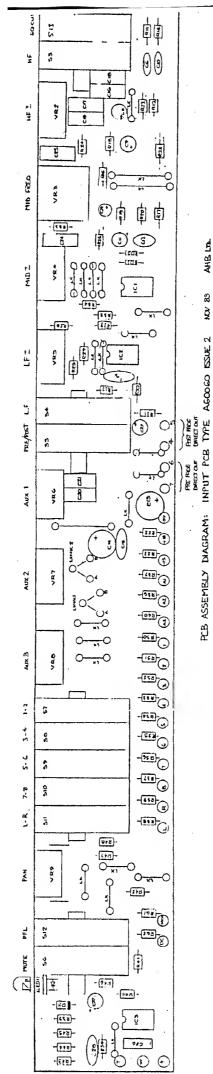


PCB ASSEMBLY DIAGRAM: PCB TYPE EX8 AGOOS9 iss1 AHB Ltm. Nov 1982

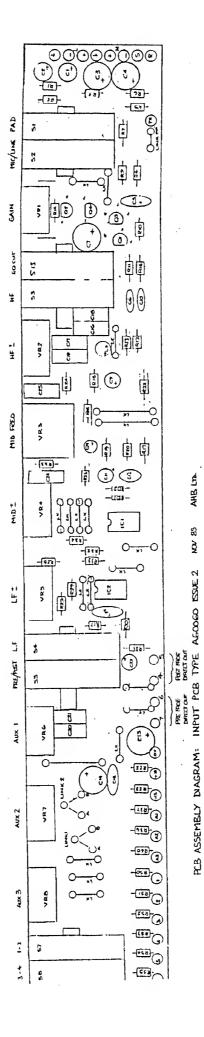


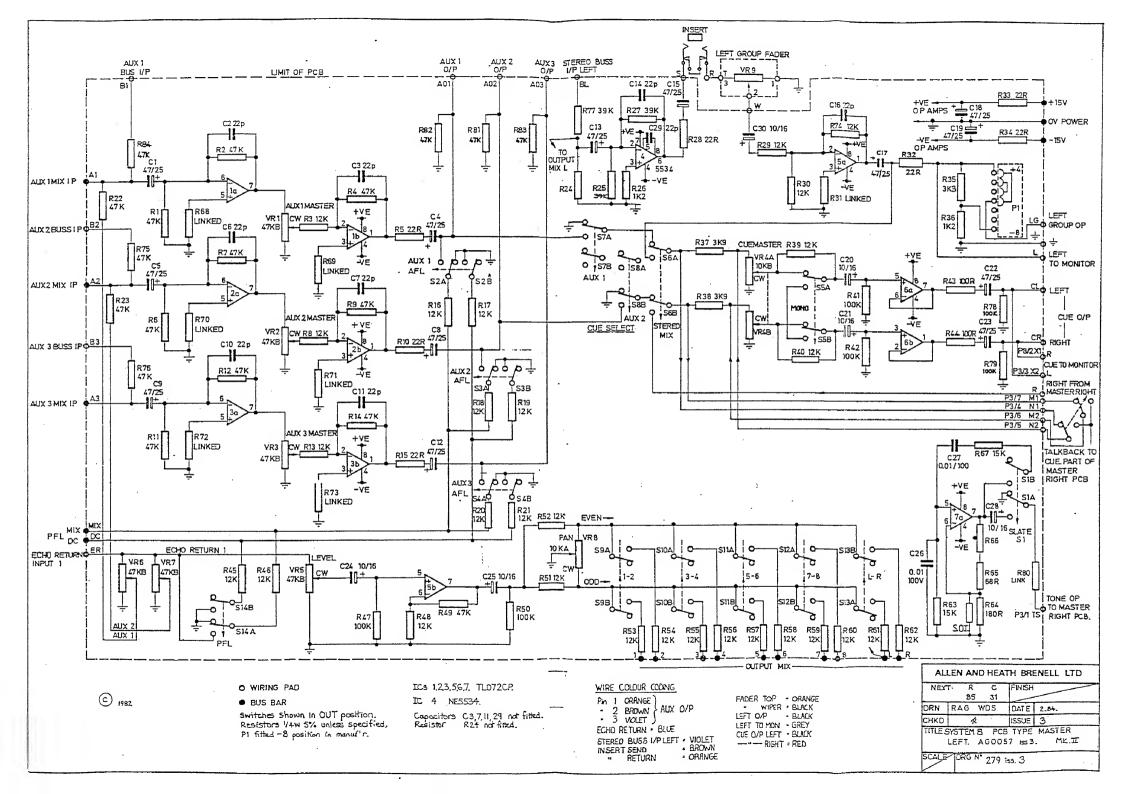


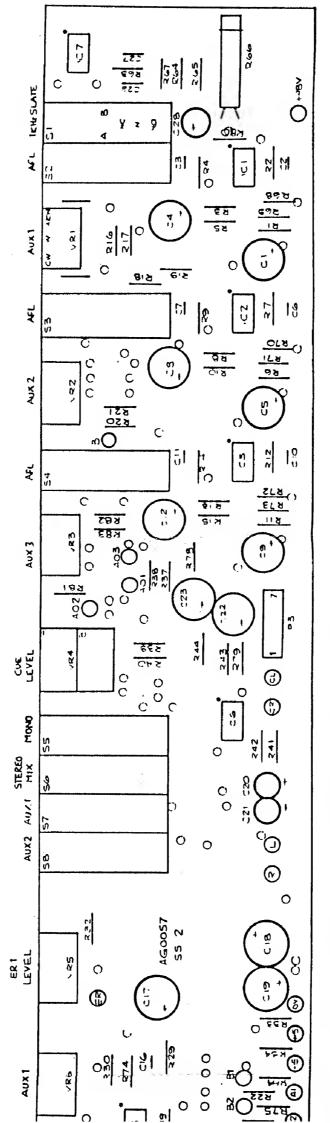




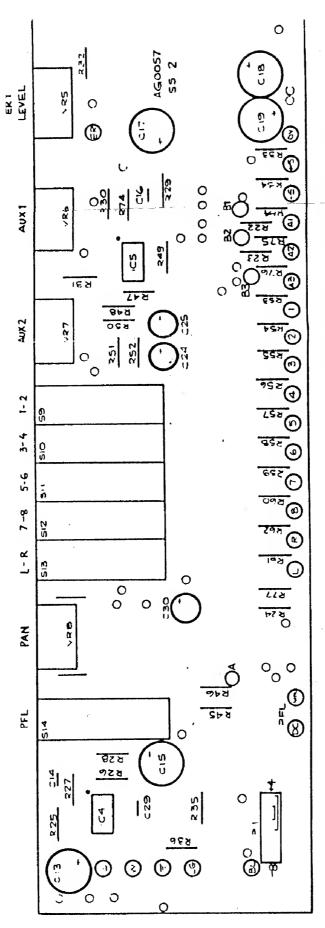
AHB LTP. 80 83 83







MAGRAM: MASTER LEFT PCB TYPE ACCOST 155UE 3 NOV. 1984 AHB LTD.



' PCB ASSEMBLY DIAGRAM: MASTER LEFT PCB TYP

